

The YHF-797BG has abundant power and functionality throughout. Sound quality is paramount in the flagship RX-797B 2-channel Receiver, featuring ToP-ART super-efficient circuit designs and CD Direct mode.



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High Sound Quality

- ToP-ART (Total Purity Audio Reproduction Technology)
- Switchable CD Direct Amplification
- Super Audio CD and DVD-Audio Ready with Extended Frequency Response
- Linear Damping
- High Dynamic Power, Low-Impedance Drive Capability
- Laser pickup floating mechanism
- High performance parts and circuitry used throughout
- Remote controllable digital volume control including headphone volume
- Optical digital output and variable analog output

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Advanced Facilities

- Multi-Zone Control Capability with Dedicated Zone Remote Unit
- Preset Remote Unit for Main Zone
- Continuously Variable Loudness Control
- Subwoofer Out
- Remote Controllable Motor-Driven Volume Control

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Convenient Operation

- Yamaha patented PlayXchange for enjoying uninterrupted music
- CD-R/RW disc compatibility
- 40-track random access programmable play and clear
- RS-232C interface for custom installation
- CD-tape synchronised record start
- Random play with disc-to-disc random play
- Repeat play

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Speaker Design

- Highest quality internal Monster Cable wiring
- High frequency response dome tweeter delivers clear, natural highs
- Beautiful Yamaha piano finish with elegant elliptical form

YHF-797B Main Specifications

Receiver (RX-797B)

| | |
|---|-------------------------|
| Minimum RMS Output Power (8 ohms, 20 Hz—20 kHz, 0.019% THD) | 100W + 100W |
| Dynamic Power (8/6/4/2 ohms) | 140 W/170 W/220 W/290 W |
| Damping Factor (8 ohms, 20 Hz-20 kHz) | 240 (speaker A) |
| Input Sensitivity/Impedance | |
| Phono (MM) | 2.5 mV/47 k-ohms |
| CD | 50 mV/47 k-ohms |
| Main In | 1 V/30k-ohms |
| Total Harmonic Distortion (20 Hz—20 kHz) | |
| Phono (MM) to Record Out | 0.008% (3 V) |
| CD to Pre Out | 0.07% (1 V) |
| CD to Sp Out | 0.012% (50 W/8 ohms) |
| Signal-to-Noise Ratio (Input Shorted) | |
| Phono (MM) [5 mV] | 87 dB |
| CD [200 mV] | 110 dB (CD Direct On) |
| Dimensions (W x H x D) | 435 x 151 x 389 mm |
| Weight | 10.6 kg |

CD Player (CDC-697B)

| | |
|-----------------------------|--------------------------|
| Frequency Response | 2 Hz-20 kHz \pm 0.5 dB |
| Harmonic Distortion + Noise | 0.003% |
| Signal-to-Noise Ratio | 106 dB |
| Dynamic Range | 96 dB |
| Digital Outputs | 1 optical |
| Dimensions (W x H x D) | 435 x 116 x 403 mm |
| Weight | 5.5 kg |

Speakers (NS-333B)

| | |
|------------------------|--|
| Woofer | 13cm (5") PMD cone |
| Tweeter | 2.5cm (1") Aluminum Dome with Waveguide horn |
| Frequency Response | 60 Hz-35 kHz |
| Sensitivity | 87 dB/0.283 V/1 m |
| Input Power (Max/Nom) | 150 W/60 W |
| Impedance | 6 ohms |
| Dimensions (W x H x D) | 200x320x213mm |
| Weight | 5.5 kg |

YHF-797BG Stereo Component System

High Quality Sound

ToP-ART (Total Purity Audio Reproduction Technology)

When processing and transmission of the audio signal is simple and direct there is less chance of it being affected by noise and distortion. Yamaha's amplifier design technology called ToP-ART features I/O (input to output) Direct Symmetrical Design, with left and right channels organized in a straight, symmetrical layout for highest signal purity.

Switchable CD Direct Amplification (Discrete Configuration)

Engaged by a front panel switch, it matches CD signal levels so each stage produces less noise, resulting in improved S/N ratio and maintenance of the amp's total gain balance.

Super Audio CD and DVD-Audio Ready with Extended Frequency Response

Rather than the usual 20Hz–20kHz frequency response, Yamaha has given the RX-797 the ability to handle frequencies from 10Hz to 100kHz (1dB). Although the ear cannot hear the higher frequencies, it has been proven that these harmonics can affect sound reproduction quality. DVD-Audio, Super Audio CD and other new formats will be able to output sound over this range, so the RX-797 is fully compatible with products using these formats.

Linear Damping

Level variations due to high amp impedance tend to reduce an amplifier's damping factor, and frequency variations cause it to fluctuate. This circuit cancels the effect of these variations, maintaining a high, stable damping factor, for superior articulation of all sounds and better frequency response.

High Dynamic Power, Low-Impedance Drive Capability

The RX-797 is capable of delivering large amounts of reserve power for accurate reproduction of high energy peaks. This emphasizes the music's dynamic qualities and provides a sharper sound image.

Laser Pickup Floating Mechanism

The laser pickup is isolated on a floating mechanism so its delicate operation cannot be affected by vibration.

Intelligent Digital Servo System

Conventional tracking servo circuitry cannot completely overcome errors caused by disc defects, warpage, dust and so on. This system uses a microcomputer to monitor the signal, adjusting pickup tracking and focus, as well as spindle motor speed, to compensate for any problems.

High Performance Parts and Circuitry Used Throughout

Because every single part affects sound quality, Yamaha uses nothing but the best. The special Low-Impedance Power Supply, for example, uses extra thick wires

to ensure that power is absolutely stable even under low-impedance conditions.

Enjoy Uninterrupted Music

This changer is 5-disc carousel type, giving you the benefits of extended playing time and direct selection from any of five discs. And with PlayXchange, you can change up to four discs while the fifth continues to play. You don't have to interrupt the music to change a disc and you're not limited to change only one disc at a time. What's more, when you press the open/close button, the tray opens all the way, allowing you to change all discs at once.

CD-R/RW Disc Compatibility

This CD changer can handle CD-R and CD-RW discs with ordinary songs. (Note that some discs may not play.)

Convenient Operation

40-Track Random Access Programmable Play and Clear

It's extremely easy to program the tracks you want to hear in any order. You can clear the programme at any time with a single touch.

RS-232C Interface

An RS-232C interface is provided so this player can be controlled via computer in a custom installation.

CD-Tape Synchronised Record Start

You'll have smooth recording starts each time, because Synchronised Record Start puts the deck into the recording mode a few seconds before starting CD play.

3-Mode CD Text Display

Get information about the CD currently playing right on the CD player's display. The 3-mode CD Text display shows the CD's title, the artist's name and the title of the track.

Random Play (Single/All) with Disc-to-Disc Random Play

Use Random Play to mix selections from various discs or to hear old CDs in the new way

Advanced Facilities

Custom Installation Compatibility

As benefits a high performance receiver, the RX-797 is designed to be suitable for use in custom installations. It has a Zone 2 out so the audio/video signal can be output in a second room. In addition, You can enjoy audio in 3 different zones in your home by using main zone speaker output, Speaker B output, and zone 2 audio/video output. There is also a Zone 2 power switch, an 2-in/1-out remote terminals and trigger out.

High Quality Monster Cable

Extremely high quality wiring, from the well-known Monster Cable Products, is used internally in each speaker to connect the woofer and crossover network.

Speaker Design

High Frequency Response Dome Tweeter

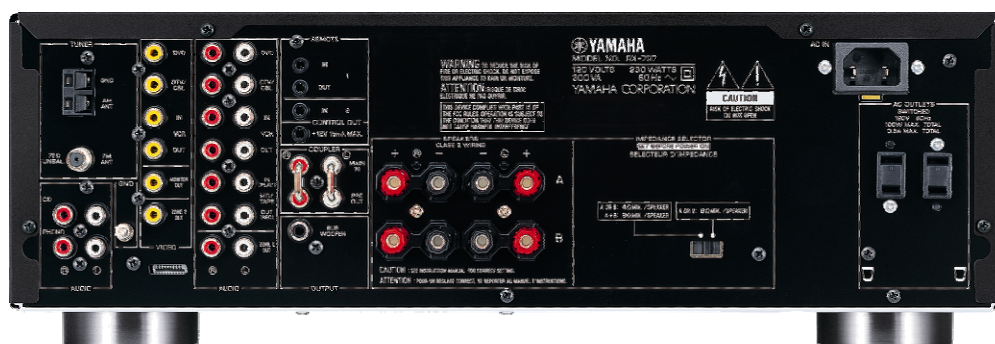
The proven capabilities and durability of this dome tweeter made it the ideal choice for these speakers. It can reproduce frequencies up to 35kHz and is powerful. The diffuser over the tweeter helps improve frequency response and directionality.

PMD Cone Woofer

The EF Series speakers use a Polymer-injected Mica Diaphragm (PMD) cone woofer. This diaphragm is composed of 30% high quality white Indian Pearl Mica, chosen for the contribution it makes to sound quality. Kapton bobbins increase S/N ratio. The cone is extremely light tough and durable, with a varied thickness for excellent response.

Beautiful Yamaha Piano Finish with Elegant Elliptical Form

As one of the world's leading piano manufacturers, Yamaha has a long history of wood-working expertise. The EF Series speaker cabinets feature the same luxurious and environmentally friendly finish as our fine grand pianos.



| Inputs | | Outputs | |
|---------|---|-----------|---|
| CD | 1 | VCR | 1 |
| Phono | 1 | MD/Tape | 1 |
| DVD | 1 | Zone 2 | 1 |
| DTV/CBL | 1 | Remote | 1 |
| VCR | 1 | Subwoofer | 1 |
| MC/Tape | 1 | | |